

ASTROSCOPIVM;
OR TWO

Hemispheres,

Containing all the Northern and Southern
CONSTELLATIONS,
Projected upon the
Poles of the World.

According to the Observations of *Mr. Halley*,
Which (by the help of a Moveable *Horizon*) are rendered Serviceable in any *Latitude*.

The Uses of which *Hemispheres* are Illustrated by
Variety of Examples.

Whereunto is added, the *Ancient Poetical Stories* of
the *Stars*; Shewing Reasons why the several Shapes
and Forms are Pictured on the *Cælestical Globes*.

The Second Edition Corrected
By *Phillip Lea*.

*The Heaven's a Book, the Stars are Letters fair,
God is the Writer, Men the Readers are.*

Globes, Sphers, Maps, Mathematical Projections, Books
and Instruments are made and Sold, by *Phillip Lea*,
at the *Atlas and Hercules* in *Cheapside*, near the Corn-
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ASTORIA BOOK CO. M.

OR T.W.O

Hemilphores

Containing all the Northern and Southern
CONSTITUTIONS

Projected upon the

Poles of the Word.

According to the Observations of Mr. Hall's
Which by the help of a Movable Alphabet are read-
ed conveniently in any Language.
The Uses of which Hemilphores are illustrated by
a Variety of Examples.
Whereunto is added, the Ancient Fortified Stories of
the Jews, showing likewise why the several Shapes
and Forms are retained on the Capital Cities.

The Second Edition Corrected

By Philip L.

The following are the names of the
Cities described, when the Reader sees

Gold, Silver, Brass, Iron, Lead, Copper, Pewter, Bone
and other Minerals in the and Soil, by Philip L.
and the Minerals in the and Soil, by Philip L.
of the following, London, 1700.

THE
DESCRIPTION
AND
USES
OF THE
HEMISPHERES.

EAch of the *Hemispheres* consisteth of three Pars, one whereof is *Fixed*, and the other two are *Moveable*.

I. Of the Fixed Part

The *Fixed Circle* is the *Hour Circle* which is divided into 24 equal Parts or Hours, and numbered from XII. on either side, towards the East and West, by I. II. III, &c. to XII. on the contrary side. And again, each of these Hours is subdivided into 12 equal Parts, each Part containing 5 minutes of Time.

B

With-

Without this Circle of Hours, is another Circle, divided into 32 equal Parts, and Denominated by the names of the 32 Points of the Mariners Compass, discovering the Position of the *Stars* in the Heavens at any time. And of these two Circles, do the Fixed Parts of the *Hemispheres* consist.

II. Of the Moveable Parts.

I. Within these Fixed Circles move the two *Hemispheres*, which are limited within two other Circles called *Equinoctials*, which move (with them) upon the Poles of the World, as their Center.

The innermost of which two Circles is divided into 360 equal parts, or degrees, and in a narrow Margine so numbered, from the East, by the South, West, and North, to the East again, by 10. 20. 30, &c. to 360---- And this Circle, or *Equinoctial*, is again subdivided into 12 equal Parts, each Part containing 30 deg. or one Sign of the *Zodiack*, and Named by the Names, and Charactered by the Characters, of the Twelve Signs, thus *ARIES* 10. 20. *Aries* 30, &c.

The outermost of these two Circles is a Circle of *Months*, and is divided into 12 unequal

equal Parts or *Months*, each *Month* having its Proper Name, and its due number of Days, and are thus named and numbered
7 A N U A R T 10. 20, 30, &c.

Between the Center of the *Hemispheres* (which are the two Poles of the World) and the *Equinoctials*, are inserted the several *Stars* according to their *Right Ascensions*, *Declinations* & *Magnitudes*, the Northern *Stars* upon the Northern, and the Southern upon the Southern *Hemisphere*: All which *Stars* are drawn into such *Constellations* as (by the *Poets*) have been Feigned, or Attributed to them ; and such *Stars* as are *In formis*, are there placed, according to their *Right Ascensions*, *Declinations*, and *Magnitudes* also.

From the Center (or Pole) of each *Hemisphere*, to the beginning of the 360 degrees, which is at the beginning (or first deg. of *Aries*, is drawn a Semidiameter, which contains one Quarter of the *Equinoctial Colure* (and therefore I shall so call it) which is divided into 90 un-equal degrees, and is numbered from the beginning of *Aries* upwards towards the Pole, by 10. 20. 30. 40, &c. to 90 at the Pole it self.

Again, from the first degree (or beginning) of *Aries*, to the beginning of *Libra*, in

both *Hemispheres*, there is drawn an oblique Arch of a Circle, which is divided into six unequal Parts or Signs, and each Sign is subdivided into 30 unequal Parts, of which the Northern *Hemisphere* contains the six Northern, and the Southern the six Southern Signs, each Sign being numbered and Charactered thus: *Aries* 10. 20. 30. *Taurus* 10. 20. 30, &c.

This Circle is the Ecliptick, and cutteth the Solstitial Colure in the Points *Cancer* and *Capricorn*, which are 23 degrees 30 minutes distance from the *Equinoctial* on each *Hemisphere*.

There is also upon the Pole, or Center of each *Hemisphere*, two Circles described, the one passing through 23 degrees 30 min. and the other through 66 degrees 30 minutes; that which passeth through 23 degrees 30 min. in the { Northern } *Hemisphere* is the { Southern }

Tropick of { *Cancer*, } and that which passeth through 23 degrees 30 minutes of the { Northern } *Hemisphere* is the { *Artick* } { *Antartick* } Circle-----None of these Circles have any divisions at all upon them, neither is there any

any need ; but by them you may discover what *Stars* are bounded and limited by them.

All these parts of the *Hemispheres* hitherto described, are general, and are of the same use in all *Latitudes* : But to make the uses of these *Hemispheres* the more ample, there is.

2. Another *Moveable Part* added, which is an *Horizon*, which *Horizon* must be peculiar to some certain *Horizon*, or part of the World, (and although a General or Universal *Horizon* might easily be contrived, yet the conveniences thereof would not be equivalent to the inconveniences.) And how to make such an *Horizon* for any assigned *Place* or *Latitude*, and how to divide the same ; as also to divide the *Equinoctial Colure* and the *Ecliptick*, shall be shewed at the end of this Tracture. In the mean while take notice, that one of the Semidiameters of this particular *Horizon* (as this is here made for the *Latitude* of London 51 degrees 30 minutes) is divided and numbered in all respects, and with the same divisions as is the *Equinoctial Colure*. But the Arch of the *Horizon* is divided, first into two equal parts,

B 3

and

and each of those numbered by 10. 20. 30. &c. to 90, from the East and West Points thereof, to the North and South, and is again divided into 16 un-equal parts, and named backwards and forwards, from East and West, by the Denominations of the Points of the Compass-----This *Horizon* is to be applyed to, and to move upon the Pole, or the Center, of either *Hemisphere*; and so renders the Uses of the *Hemispheres* general for that *Latitude*—Note here, that I call the straight part of the *Horizon* the *Diameter*, and the Circular part, the Arch of the *Horizon*.

And thus have you an accompt of the several parts of these *Hemispheres*; it resteth now, that we say something of the Uses of them.

T H E

THE
 USES
 OF THE
HEMISPHERES.

Probl. I.

*The day of the Month being given to find the
 Suns Place.*

SEek the day of the Month in the *Move-
 able Circle* of Months, and thereto
 bring the Diameter of the *Horizon*; so shall
 it cut in the *Equinoctial*, the Sign, Degree,
 and Minute, that the *Sun* is then in at
 Noon, that day.

Example, Let the day be the 20th. of
April, and let the *Suns Place* be required---
 Lay the Diameter of the *Horizon*, upon the
 20th. of *April*, and at the same time it will

B 4

cut

cut the 10th degree of *Taurus*, which is the *Suns* Place that day. And so upon the 8 of *August* the *Suns* Place will be found to be in 25 deg. and an half of *Leo*. And the 15th of *Novemb.* in 3 deg. 30 min. of *Sagittarius*.

Probl. 2.

*The Suns Place in the Zodiack being given,
to find the day of Month.*

BRing the Diameter of the *Horizon* to the *Suns* Place, and at the same time it will the day of the Month.

So the Diameter (or a Third) being laid to the 10th deg. of *Taurus*, it will then cut the 20th day of *April*: And laid to 29 deg. and an half of *Leo*, it will cut the 8th day of *August*. And again laid to 3 deg. 30 min. of *Sagittarius*, it will cut upon the 15th of *November*.

Probl. 3.

The Place of the Sun in the Ecliptick being known, to find his Declination.

FInd the degree of the *Suns* Place in the *Ecliptick*, in either of the *Hemispheres*, & bring the divided parts of the Diameter
of

of the *Horizon* thereto ; so shall the degrees of the Diameter of the *Horizon*, which are intercepted by the *Suns* Place in the *Ecliptick*, be the degrees of the *Suns* Declination.

So if the *Sun* be in 17 deg. of *Taurus*, the divided part of the Diameter of the *Horizon* being brought thereto, there will be cut upon the Diameter 17 deg. and that is the *Suns* Declination-----Also if the *Sun* be in 10 deg. of *Sagittarius*, the Declination will be found to be 22 deg.-----And in the beginning of *Pisces*, it will be found 11 deg. and an half.

And here note, if the *Suns* Place be found in the Northern *Hemisphere*, the *Suns* Declination is North-ward : But if in the Southern *Hemisphere*, the Declination is South also.

Probl. 4.

The Suns Declination being given, to find his Place in the Ecliptick.

IF the *Sun* hath North or South Declination, make use of the North or South *Hemisphere*-----Then upon the Diameter of the *Horizon*, count the degrees of the *Suns* Declination, and turn the Diameter about
till

till the deg. of the *Suns* Declination do cross the *Ecliptick*, and where it so crosseth the *Ecliptick*, there is the Place of the *Sun*.

So the *Suns* Declination being 10 deg. North, then 10 deg. of the Diameter of the *Horizon*, will cut 25 deg. 55 min. of *Aries*, or 4 deg. 5 min. of *Virgo* in the Northern Hemisphere---And if the *Sun* have 10 deg. of South Declination, it will then cut the *Ecliptick* in 25 deg. 55 min. of *Libia*, or in 4 deg. 5 min. of *Pisces* in the Southern Hemisphere. For the *Sun* makes four Gradations of Declination in a Year, in the several Quarters of the *Ecliptick* contained between *Colure* and *Colure*.

Probl. 5.

The Place of the Sun being known, to find his Right Ascension.

BRing the Diameter of the *Horizon* to the *Sun's* Place in the *Ecliptick*, then will the Diameter of the *Horizon* cut also the Circle which is divided into 360 deg. in the degrees of the *Suns* Right Ascension.

So the *Sun* being 29 deg. of *Taurus*, if you bring the Diameter of the *Horizon* to that deg. counted in the *Ecliptick*, it will cut
the

the Circle which is divided into 360 deg. in 56 deg. 50 min. And such is the *Suns* Right Ascension at that time-----But if the *Suns* Place had been in 92 deg. of *Scirpio*, then his Right Ascension (in the Southern *Hemisphere* (would be found to be 236 deg. 50 min.

Probl. 6.

The Suns Declination being given, to find his Amplitude.

IN resolving many *Problems*, it will be requisite to have a Third Fixed in the Center of the *Hemispheres*; with a small Bead to move upon it, as in this, and some other *Problems* which follow.

First, lay the Diameter of the *Horizon* upon the two Sixes; and set the Bead which is upon the third to the *Suns* Declination, counted upon the Diameter of the *Horizon*: Then move the Third along till the Bead do just touch the Arch of the *Horizon*, and what degrees of the Arch the *Horizon* the Bead chanceth to fall upon, those degrees (or that Point of the Compass) counted from the East and West Points of the *Horizon*, are the degrees of the *Suns* Amplitude

or

or Distance of his Rising or his Setting, from the true East or West Point.

So the *Sun* having 23 deg. 30 min. of North Declination, set the Bead thereto; and (the Diameter of the *Horizon* lying just upon VI and VI) move the Thred till the Bead upon it do just touch the Arch of the *Horizon*; which it will do at 40 deg. (or within 6 deg. and a Quarter of the North-East or North-West Points of the Compass) which is the *Suns* Amplitude-----But if the *Suns* Declination had been 20 deg. the Bead set thereto, and moved to the Arch of the *Horizon*, it would then cut 33 deg. 20 min. (or 25 min. short of the North-East by East, or South-West by South Points of the Compass) for the Amplitude.

Probl. 7.

The Suns Declination given, to find the time of the Suns Rising and Setting.

RECTifie the Bead to the Declination, and lay the *Horizon* to the two Sixes, as before; then move the Thred till the Bead touch the Arch of the *Horizon*; and then shall the Thred shew upon the Hour Circle, the Hour and minute of the *Suns* Rising or Setting. So

So the Declination being 23 deg. 30 min. the Bead rectified, and brought to the Arch of the *Horizon*, the Thred will then cut the Hour Circle at 47 min. after III in the Morning, at which time the *Sun* Riseth; and if you carry the String yet on, till the Bead touch the Arch of the *Horizon* in the other side of XII. the Thred will then fall upon 13 min. after V I I I. at Night; at which time the *Sun* Setteth----But if the *Sun* have 20 deg. of North Declination, you shall find that he will Rise 11 min. after IV and Set at 49 min. after V I I.

Probl. 8.

How to find the Right Ascension of any Star.

MOve the Diameter of the *Horizon* about, till it lie upon the Center of the *Star*; and upon the Circle of 360 deg. the Diameter of the *Horizon* shall there shew the degrees of Right Ascension.

So the Diameter being laid upon *Cor Leonis*, shall cut 147 deg. 17 min.----And laid upon the *Bulls-Eye*, it shall cut 64 deg. 17 min. which are the Right Ascensions of those *Stars*.

Probl.

Probl. 9.

To find the Declination of a Star.

MOve the Graduated Part of the Diameter of the *Horizon* about, till it cut the *Star* desired, and count what degrees of the Diameter are cut by the *Star*, for those are the degrees of the *Stars* Declination.

So if the Diameter of the *Horizon* be brought about till it touch *Cor Leonis*, that *Star* shall be cut by 13 deg. 33 min. which is that *Stars* Declination---- And the Diameter being turned about to the *Bulls-Eye*, that *Star* shall be cut by 15 deg. 46 min. and that is his Declination

Probl. 10.

To find what Stars do never Set, but are always above the Horizon in any Latitude.

Count your *Latitude* upon the Graduated Diameter of the *Horizon*, from the Pole or Center down wards, (calling 80 deg. 10 deg. and 70 deg. 20 deg. &c. (So keeping your Finger, or setting a Pin, in that Point, turn the *Horizon* round about, and all

all those *Stars* which are between your Finger and the Pole, do never Rise nor Set, but are always above that *Horizon*---And all such *Stars* whose Declination are greater then the Complement of any *Latitude*, do never Rise or Set in that *Latitude*--- And all such *Stars* in the contrary *Hemisphere*; whose Declination do exceed the *Latitude*, those *Stars* do never Rise, or appear in that *Latitude*.

And thus, if you lay the Diameter to *Lucida Lyra*, you shall find that *Star* to lie just under 51 deg. 30 min. (if you count the degrees from the Pole downwards) so that in the *Latitude* of 51 deg. 30 min. when that *Star* is to the West-ward of the South part of the Meridian, it continually Descends Lower and Lower, till being Arrived to the North part of the Meridian; and then it immediately begins to Ascend, till it Arrives to the Southern part of the Meridian again.

Probl. 11.

To find the Longitude of any *Star*, or any *Stars* Place in the *Ecliptick*,

Lay a String, or Rule, from the Pole of the *Ecliptick*, (which is marked in each
He-

Hemisphere dy the Character ☉, and is at the Intersections of the *Solstitial Colures*, with the *Artick* and *Antartick* Circles) to the Center of the *Star* whose *Longitude* is required; and so shall the String or Ruler cut in the *Ecliptick Line*, and also in the *Equinoctial*, the Sign and degree of the *Stars Longitude*.

So a Ruler laid from ☉ (the Pole of the *Ecliptick*) to *Aldebaron*, or the *Bulls-Eye* it will cut both the *Equinoctial* and *Ecliptick*-Circles in 5 deg. 31 min. of *Gemini*, or in 65 deg. 12 min. of the Circle of 360 deg.--- And laid from the Pole of the *Ecliptick* ☉, to the *Lions Tail*, it shall cut the *Ecliptick* and *Equinoctial*, both of them in 19 deg. of *Virgo*, or in 169 deg. of the Circle of 360 deg.

Probl. 12.

To know what Stars shall be upon the Meridian at any Hour of the Night throughout the Year.

Lay the Diameter of the *Horizon* upon XII. and XII. and move the *Hemisphere* about, till you bring the Day of the Month just against the proposed Hour, so shall all those *Stars* which lie under the Diameter of the *Horizon*, be upon the Meridian at that Hour of the Night. Thus,

Thus, if it were required to know what *Stars* shall be upon the Meridian upon the 14th. of *January*, at 8 of the Clock.

Lay the Diameter of the *Horizon* upon XII. and XII. then turn the *Hemisphere* about, till you bring the 14th. day of *January* to lie just against VIII. in the Hour Circle; then will all those *Stars* which lie just under the Diameter of the *Horizon*, be upon the Meridian at VIII. of the Clock that Night, of which you shall find *Aldebaron*, or the *Bulls-Eye* to be the Principal.-----And at 4 minutes after XI. that Night will the *Little Dog* be upon the Meridian.

Probl. 13.

To know what Stars will be upon the Meridian at Midnight, any Night in the Year.

Lay the Diameter of the *Horizon* upon the Day of the Month, so shall all the *stars* which lie under the Diameter be upon the Meridian at XII. of the Clock.----- This needeth no Example, but you may find,

that upon $\left. \begin{array}{l} \text{Feb. 6.} \\ \text{Feb. 16.} \\ \text{March 3.} \\ \text{March 27.} \end{array} \right\}$ the $\left\{ \begin{array}{l} \text{Lions Heart} \\ \text{Lions Back} \\ \text{Lions Tail} \\ \text{Virgins Spike} \end{array} \right.$ will be upon the Meridian at XII. at Night, &c.

A

Probl. 14.

Probl. 14.

To know at what Hour of the Night any Star will be upon the Meridian.

Lay the Diameter of the *Horizon* upon XII. and move the *Hemisphere* about, till the *Bulls-Eye* lies just under the Diameter, then just against the first day of *January* in the Circle of Months you shall find 55 Minutes past VIII. in the Hour Circle, which shews, that at that time the *Bulls-Eye* will be upon the Meridian.

Probl. 15.

To find the difference of Longitude, or the Horary Distance of any two Stars.

BRing one of the *Stars* against XII. in the Hour Circle, then lay the Diameter of the *Horizon* upon the other *Star*; and what Hour that cuts (counted from XII.) upon the Hour Circle, is the Distance of *Longitude*, or *Horary Distance* of these two Stars.

Thus, Let the two Stars be the *Bulls-Eye*, and the *Lions Tail*.

Bring

Bring the *Lions Tail* to XII. and then if you lay the Diameter of the *Horizon* upon the *Bulls-Eye*, you shall find it to cut 7 Hours and 15 minutes, which is 109 degrees; and such is the difference of *Longitude* of these two Stars, or their *Horary Distance*.

Probl. 16.

To find the Hour of the Night by the Stars.

SEE what *Star* you find to be either upon the North, or South part of the Meridian; and accordingly bring the same Star to the like Meridian in the *Hemisphere*: Then look the day of the Month in the Circle of Months, right against which you have the true Hour of the Night.

Thus, if upon the 20th. of *January* you should find *Aldebaron*, or the *Bulls-Eye* to be upon the South part of the Meridian; bring *Aldebaron* just against XII. in the *Hemisphere*, then against the 20th. of *January* you shall find 22 Minutes before 8. or 38 Minutes after 7. which is the true Hour of the Night on the 20th. of *January*, when *Aldebaron* will be upon the Meridian.

Probl. 17.

To find the Semidiurnal, or Seminocturnal Arch of any Star.

Lay the Diameter of the *Horizon* upon VI. and bring the *Star* justly to touch the Arch of the *Horizon*: Then lay the Diameter of the *Horizon* upon the *Star*, and count how many Hours are contained between either of the XII's. for the one is the Semidiurnal, and the other the Seminocturnal Arch of that *Star*.

Thus, if you lay the Diameter of the *Horizon* upon VI. and bring *Aldebaron* to touch the Arch of the *Horizon*; and then lay the Diameter of the *Horizon* upon *Aldebaron*, you shall find it to cut upon 36 minutes after III. if you count the Hours from XII. so that the Seminocturnal Arch of that *Star* is 4 Hours 36 minutes: And if you count the Hours from the other XII. you shall find them to be 7 Hours 24 minutes, which is the Semidiurnal Arch of that *Star*, it being a *Star* having North Declination.

Probl. 18.

Probl. 18.

To find the Amplitude, or the Point of the Compass upon which any Star Riseth or Setteth.

Lay the Diameter of the *Horizon* upon VI. and bring the Star to touch the Arch of the *Horizon*, so shall the degrees of the Arch of the *Horizon* contained between the East or West Points of the *Horizon*, shew the Amplitude of that Stars Rising and Setting, from the East or West, towards the North or South.

Thus, If you lay the Diameter of the *Horizon* upon VI. and bring the *Bulls-Eye* to the Arch therefore, you shall find it to lie under 26 degrees of the *Horizon*; and so many degrees doth that Star Rise distance from the true East Point towards the North, and Sets so many degrees distance from the West North-ward also, (because the Star hath North Declination) and so his Amplitude of Rising is North-East by East 8 degrees Easterly. And his Amplitude of Setting is North-West by West 8 degrees Westerly.

Probl. 19.

Probl. 19.

To find at what Hour any Star Riseth or Setteth.

Lay the Diameter of the *Horizon* upon VI. and bring the Star to lie just under the Arch of the *Horizon* on the East side. Then seek the day of the Month in the Circle of Months, and the Hour which standeth against it, is the Hour of the Stars Rising: And if you bring the Star to lie under the Arch of the *Horizon* on the West side against the day of the Month, you shall have the time of the Stars Setting.

Thus, upon the 25 th. of *December*, if you would know at what Hour the *Bulls-Eye* Riseth and Sets. Lay the Diameter of the *Horizon* upon VI. and bring the *Bulls-Eye* just under the Arch of the *Horizon* on the East side, and against the day of the Month you shall find II Hours from the Meridian, which is 2 of the Clock in the Afternoon for the time of that Stars Rising. And the Star being brought under the West part of the *Horizon*, the day of the Month shall be against IIII Hours 46 minutes, which is 46 minutes after 4 in the Morning, at which
Hour

Hour *Aldebaron*, or the *Bulls-Eye* Setteth.

Probl. 20.

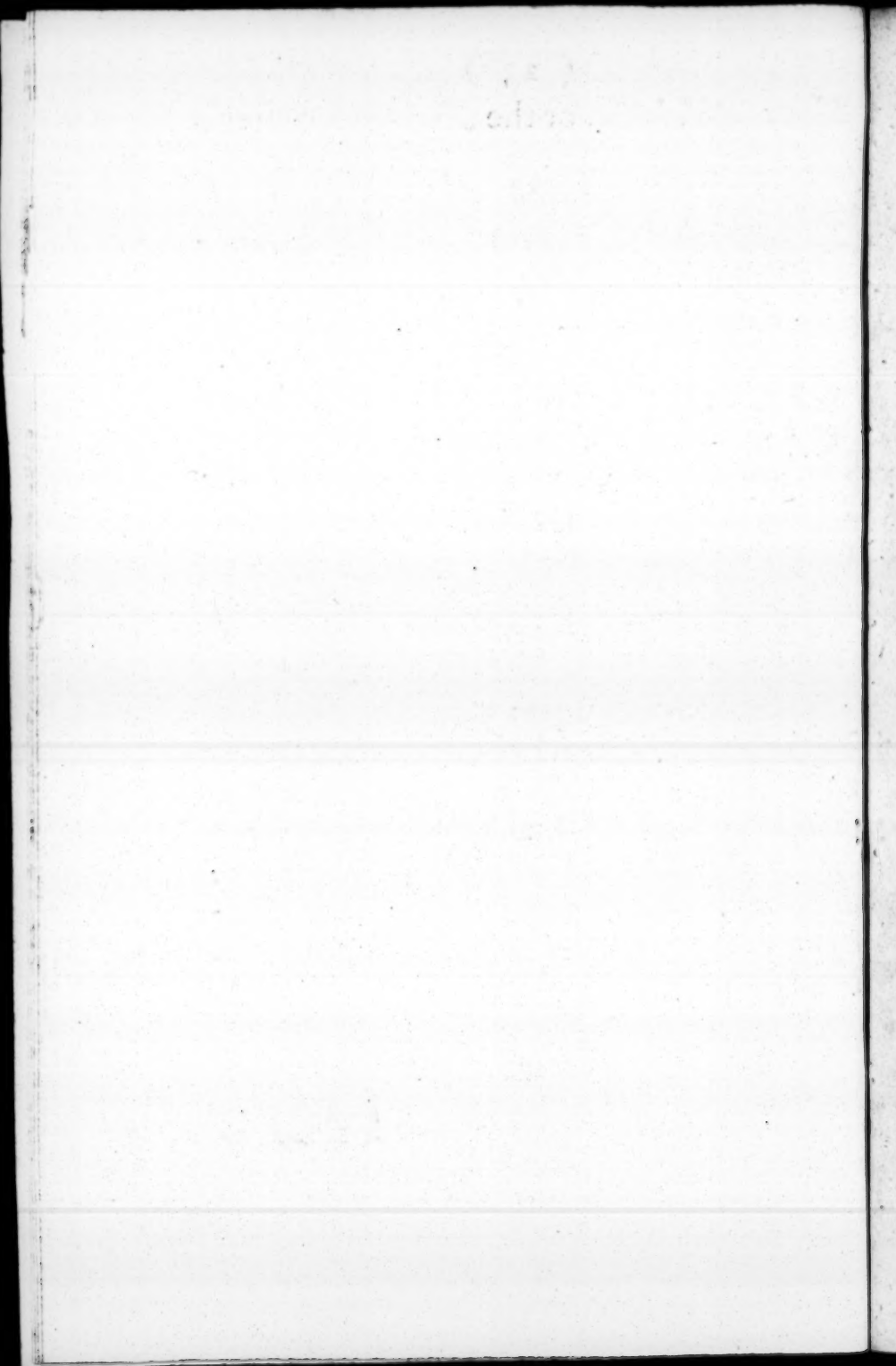
To know what time of the Year any Star in the Hemisphere will be upon the Meridian at 12 a Clock at Night.

BRing the Star to XII on the South part of the Meridian, then upon that day of the Month which standeth against the North XII. shall that Star be upon the Meridian at Midnight.

Example.

I would know upon what Night in the Year the *Bulls-Eye* will be upon the Meridian at 12 at Night : Bring the *Bulls-Eye* against the South XII. and against the North XII. you shall find the 16th. of *November*, upon which Night at 12 of the Clock *Aldebaron* (or the *Bulls-Eye*) will be upon the Meridian.

Here



Here follows the
ANCIENT STORIES
 Of the several

Stars and Constellations.

Shewing the Poetical Reasons why
 such Various FIGURES are placed in

HEAVEN.

Collected from Dr. HOOD.

And First,
Of the Northern Constellations.

U*RSA MINOR*, This Constellation hath the
 preheminence, because it is nearest of all the
 rest unto the North Pole; and is called of the *Greeks*
Arctos, whereupon the Pole is called the Pole Artick,
 for that it is near unto this Constellation. It is also
 called *Helice minor*, because of the small Revolution
 which it maketh round about the Pole: or rather of
Elice, a Town in *Arcadia*, wherein *Calisto* the great
 Bear, and Mother to the less, was bred. It is called

B

Cynos

Cynosura, because this Constellation, though it carry the name of a Bear, yet it hath the tail of a Dog: Last of all, it is termed *Phenice*, because that *Thales*, who first gave the name to this Constellation, was a *Phenician*: And therefore the *Phenicians* being taught how to use it in their Navigations, did call it by the name of the Countrey wherein *Thales* was born: It consisteth of Seven Stars, which the Latines call *Septentriones*, because by their continual motions those Seven Stars do as it were wear the Heaven. The *Spaniards* do call them all *Bosina*, that is an *Horn*; because they may be very well brought into that form; whereof that which is the end of the Tail is called the *Pole-Star*, by reason of the nearness thereof unto the Pole of the World; for it is distant (according to the opinion of most) from the true Pole, but 3 degrees 30 minutes. The *Arabians* call it *Alrukabā*. And of the *Scythians* it is said to be an *Iron nail*, and is worshipped by them as a God. The two Stars that are in the shoulders of the *Bear*, are called the *Guards*, of the *Spanish* word *Guardara*, which is to behold; because they are diligently to be looked unto, in regard of their singular use which they have in Navigation.

The reason why this Constellation was brought into the Heavens is diversly set down, and first in this manner; *Saturn* having received of the Oracle that one of his Sons should banish him out of his Kingdom, determined with himself to kill all the Men-children that he should beget; whereupon he gave command to *Ops* his Wife, being then great, that she should shew him the Child so soon as ever it was born;

born: But she bringing forth *Jupiter*, and being greatly delighted with his hair, gave the Child unto two Nymphs of *Creet*, dwelling in the Mount *Diète*, whereof this was one, and was called *Cynosura*, the other was *Helice*.

Jupiter, after that (according to the Oracle) he had bereft his Father of his Kingdom, in recompence of their pains and curtesy, translated them both into the Heavens, and made of them two Constellations, the *lesser Bear*, and the *greater Bear*.

Other some say, that it was *Arctas* the son of *Calisto*, and they tell the Tale on this manner; *Calisto* a Nymph of singular Beauty, Daughter to *Lycæon* King of *Arcadia*, induced by the great desire she had of hunting, became a follower of the Goddess *Diana*. After this, *Jupiter* being enamoured with her Beauty, and out of hope, by reason of her profession, to win her love, in his own person, counterfeited the shape of *Diana*, lay with *Calisto*, and got her with Child, of whom was born a Son which was called *Arctas*. *Diana*, or rather *Juno*, being very much offended herewith, turned *Calisto* into a *Bear*. *Arctas* her Son at the age of fifteen, hunting in the Woods, by chance lighted on his Mother in the shape of a *Bear*, who knowing her Son *Arctas*, stood still that he might come near unto her, and not be afraid: but he fearing the shape of so cruel a Beast, bent his Bow of purpose to have slain her: whereupon *Jupiter* to prevent the mischief, translated them both into Heaven, and of them made two several Constellations: unto the *Lesser Bear* there belongs but one Star unformed:

2. *URSA MAJOR*, the *Greater Bear*, called also of the Greeks *Arctos*, and *Helice*, consisteth of

27 Stars; Among the which, those seven that are in the hinder part and tail of the Bear are most observed; the Latines call them *Plaustrum*, and of our men they are called *Charles Wayn*; because the Stars do stand in such sort, that the three which are in the tail resemble the Horses, and the other four which are in the flank of the *Bear*, stand (after a manner) like the Wheels of a wagon, or Chariot; and they are supposed by some to be greater than the Sun. The reason of the translation of this Constellation into the Heaven, is at large set down in the other Constellation, and therefore needs not here to be repeated. This Constellation was first invented by *Nauplius*, the Father of *Palamedes* the Greek; and in great use among the Grecians; and this is to be noted both in this and the former Constellation, that they never set under the Horizon in any part of *Europe*: which though it fall out by reason of their situation in the Heavens; Yet the Poets say, that it came to pass through the displeasure and hatred of *Juno*, who for that she was by *Castro* made a Cuckquean, and they notwithstanding (as she took it) in despite of her were Translated into Heaven, requested her brother *Neptune*, that he should never suffer those Stars to set within his Kingdom, To which request *Neptune* condescended; so that in all *Europe* they never come near unto the Sea, or touch the Horizon. If any one marvel, that (seeing she hath the form of a *Bear*) she should have a tail so long; imagine that *Jupiter* fearing to come too nigh unto her teeth, laid hold on her tail, and thereby drew her up into Heaven; so that she of herself being very weighty, and the distance from the Earth to the Heaven very great, there was great likelihood

lyhood that her tail must stretch. The Unformed Stars belonging to this Constellation are Eight.

3. *DRACO*, the *Dragon*, of some named the *Serpent*; of others the *Snake*, by the *Arabians*, *Aben*, and by *Functinus Florentinus*, *Draco*; because he windeth his tail round about the Ecliptick Pole; it containeth 31 Stars. This was the Dragon that kept the Golden Apples in the Orchard of the *Hesperides*, (now thought to be the Islands of *Cape de Virde*) and for his diligence and watchfulness, was afterwards Translated into Heaven: Yet others say that he came into Heaven by this occasion; when *Minerva* withstood the *Gyants* fighting against the *Gods*; they to terrifie her, threw at her a mighty *Dragon*, but she catching him in her hands, threw him presently up into Heaven, and placed him there, as a memorial of that her resistance. Others would have it to be the *Serpent Python*, whom *Apollo* slew, after the Deluge.

4. *CEPHEUS*, containeth in him 11 Stars, and hath two unformed. This was a King of the *Arbians*, and Husband unto *Cassiopeia*, and Father of *Andromeda*, whom *Perseus* married: He was taken up into Heaven, with his Wife and Daughter, for the good Deeds of *Perseus* his Son in Law, that he and his whole stock might be had in remembrance for ever. The Star which is in his right shoulder is called by the *Arabians Alderabim* (i. e.) his right Arm.

5. *BOOTES*, the driver of the *Oxen* (for so I suppose the name to signifie, rather than an *Herdsmen*, for he hath not his name because he hath the care of any Cattel, but only because he is supposed to drive

Charles his Wain, which is drawn by 3 Oxen) he is also called *Arctophilax*, the keeper of the *Bear*, as tho' the care of her were committed to him: This Constellation consisteth of 22 Stars. Some will have *Bootes* to be *Arcas*, the Son of her who before was turned into the *Great Bear*; and they tell the Tale thus: *Lycaon* the Father of *Calisto*, receiving *Jupiter* into his house as a Guest, took *Arcas* his Daughters Son, and cut him in pieces; and among other Services, set him before *Jupiter* to be eaten; for by this means he thought to prove if his Guest were a God, as he pretended to be. *Jupiter* perceiving this heinous fact, overthrew the Table, fired the house with lightning, and turned *Lycaon* into a Wolf: but gathering, & setting together again the limbs of the child, he committed him to a Nymph of *Erolia* to be kept: *Arcas* afterwards coming to mans estate, and hunting in the Woods, lighted at un-awares upon his Mother, transformed by *Juno* into the shape of a *Bear*, whom he pursued into the Temple of *Jupiter* *Lycaon*, whereunto by the Law of the *Arcadians*, it was death for any man to come. For as much therefore as they must of likelihood be both slain, *Calisto* by her Son, and he by the Law, *Jupiter* to avoid this mischief, of meer pity took them both up into Heaven. Unto this Constellation belongeth but one Star unformed, and it is between the legs of *Bootes*; and by the *Grecians* it is called *Arcturus*, because of all the stars near the great *Bear* named *Arctos*, this star is first seen near her tail in the evening. The Poetical invention is thus.

Icarus the Father of *Erigone*, having received of the God *Bacchus* a Flagon of Wine, to declare how good it

it was for mortal men, travelled therewith into the Territoires of *Athens*, and there began to carouse with certain shepherds, they being greatly delighted with the pleasantness of the wine, being a new kind of Liquor, began to draw so hard at it, that ere they left off, they were past one and thirty; and in the end, were fain to lay their heads to rest. But coming unto themselves again, and finding their brains scarce in good temper, they kill'd *leonus*, thinking indeed that he had either poisoned them, or at the least-wile made their brains intoxicate. *Erigone* was ready to dye for grief, and so was *Mera* her little dog. But *Jupiter* to allay their grief, placed her Father in Heaven, between the legs of *Arctophila*.

6. *CORONA BOREA*, the Northern Garland, consisteth of Eight Stars; yet *Ovid* saith, that it hath nine. This was the Garland that *Venus* gave unto *Ariadne*, when she was Married unto *Bacchus* in the Isle *Naxos*, after that *Theseus* had forsaken her: which garland *Bacchus* placed in the Heaven; as a token of his love. *Noeudius* will have it to be the Crown of the *Virgin Mary*.

7. *ENGONASIS*: This Constellation hath the name, because it is exprest under the shape of a man kneeling upon the one knee, and is therefore by the Latines called *Ingeniculum* It containeth 29 Stars and wanteth a proper Name, because of the great diversity of Opinions concerning the same. For some will have it to be *Heracles*, that mighty Conqueror who for his 12 Labours was thought worthy to be placed in the Heaven, and nigh unto the *Dragon* whom he overcame. Others tell the tale thus: That

when the *Tytans* fought against the *Gods*, they for fear of the *Gyants*, ran all unto the one side of the Heaven: whereupon the Heaven was ready to have fallen, had not *Hercules* together with *Atlas*, set his neck unto it, and stayed the fall: and for his Desert he was placed in Heaven.

8. *L T R A*, the *Harp*, it containeth 10 Stars, whereof thus goeth the Fable. The River *Nilus* swelling above his banks, over-flowed the Country of *Egypt*; after the fall whereof there were left in the fields divers kinds of living things, and amongst the rest a *Tortoise*; *Mercury*, after the flesh thereof was consumed, the sinews still remaining, found the same, and striking it, he made it yield a certain sound; whereupon he made an *Harp* like unto it, having Three strings, and gave it unto *Orpheus* the Son of *Cassiopea*. This *Harp* was of such excellent sound, that Trees, Stones, Fowls, and Wild Beasts are said to follow the sound thereof. After such time therefore that *Orpheus* was slain by the Women of *Thrace* the Muses by the good leave of *Jupiter*, and at the request of *Apollo*, placed this *Harp* in Heaven. *Neusdian* will have it to be the *Harp* of *David*, whereby he pacified the Evil spirit of *Saul*. This Constellation was afterwards called *Ulnus Cadens*, the falling Grype; and *Falco* the Falcon; or *Timpanum* the *Timbrel*.

9. *O L O R*, or *Cygnus* the *Swan*, called of the Chaldeans *Adigege*, hath 17 Stars: of this Constellation the Poets Fable in this manner. *Jupiter* being overtaken with the love of *Leda* the wife of *Tyndarus* King of *Oebalia*, and knowing no honest way to accomplish his desire, procured *Venus* to turn her

her self into an *Eagle*, and himself he turned into the shape of a *Swan*. Flying therefore from the *Eagle*, as from his natural Enemy that earnestly pursued him he lighted of purpose in the lap of *Leda*, and as it were, for his more safety crept into her bosom, The Woman not knowing who it was under that shape, but holding (as she thought) the *Swan* fast in her arms, fell asleep. In the mean while *Jupiter* enjoyed his pleasure, and having obtained that he came for, betook him again unto his wings; and in memorial of his purpose (attained under that form) he placed the *Swan* among the Stars.

Ovid calleth this Constellation *Milvina*, the Kite and telleth the Tale thus. The Earth being greatly offended with *Jupiter*, because he had driven *Saturn* his Father out of his kingdom, brought forth a monstrous *Bull*, which in his hinder parts was like a Serpent; and was afterwards called the *Fatal Bull*, because the *Destinies* had thus decreed, that whosoever could slay him and offer up his Entrails upon an Altar, should overcome the eternal Gods, *Briareus* that mighty Gyant, and ancient enemy of the Gods, overcame the *Bull*, and was ready to have offered up his Entrails according to the decree of the *Destinies*; but *Jupiter* fearing the event, commanded the Fowls of the Air to snatch them away: which although to their power they endeavour'd, yet there was none of them found so forward and apt to that action as the *Kite*, and for that cause he was accordingly rewarded with a place in Heaven. Some call this Constellation *Ornis*, that is the *Bird*: others call it *Vultur Volans*, the *Flying Grype*: It is called *Gallina*, the *Hen*. Unto this Constellation do belong two unformed Stars.

10. **CASSIOPEIA**, She consisteth of 12 Stars. This was the Wife of *Cepheus*, and the mother of *Andromeda*, whom *Perseus* married, and for his sake was translated into Heaven, as some write. others say that her beauty being singular she waxed so proud, that she preferred her self before the *Nereides*, which were the *Nymphs* of the *Sea*: for which cause, unto her disgrace, & the example of all others that in Pride of their hearts would advance themselves above their betters, she was placed in the Heaven with her head as it were downwards; so that in the revolution on the Heavens she seemeth to be carried head-long.

11. **PERSEUS**, he hath 26 Stars. This was the Son of *Jupiter*, whom he in the likeness of a *Golden-shower* begat upon *Danaë*, the daughter of *Acrisius*. This *Perseus* coming unto mans estate, and being furnished with the Sword, Hat, and Wings of his brother *Mercury*, and the Shield of his Sister *Minerva*, was sent by his Foster-father *Polidorus*, to kill the Monster *Medusa*, whom he slew; and cutting off her head, carried it away with him. But as he was hastening homewards, flying in the Air, he espied *Andromeda* the daughter of *Cepheus* and *Cassiopeia*, for the pride of her mother, bound with a Chain unto a Rock, by the Sea side, there to be devoured by a Whale: *Perseus* taking notice and pity of the case undertook to fight with the Monster, upon condition that *Andromeda* might be his Wife, to be short, he delivered *Andromeda*, married her, and returning homeward unto the Isle *Seriphus*, he found there his Grand-father *Acrisius*, whom by mischance and unadvisedly he slew with a quoit. (or as *Ovid* reporteth) with the terrible sight the horrible head of *Medusa* not knowing that it was his

his Grand-father: but afterwards understanding whom he had slain, he pined away through extreme sorrow whereupon *Jupiter* his father pitying his grief took him up into Heaven: and there placed him in that form wherein he overcame *Medeusa* with the Sword in one hand, and the head of *Medeusa* in the other, and the wings of *Mercury* at his Heels. This Constellation because of the unluckiness thereof, is called by Astrologers *Cacodemon* (i. e.) Unlucky, and Unfortunate. For (as they say) they have observed in that whatsoever is born under this Constellation, having an evil aspect, shall be stricken with Sword, or lose his Head. *Novidius* saith that it is *David* with *Goliath* his head in one hand, and his Sword in the other. The unformed Stars belonging unto this Constellation, are three.

12. *AURIGA*, the Wagoner, or Cart: he consisteth of 14 Stars: the *Arabians* call him *Alator*; the *Greeks* *Hemochas*, (i. e.) a man holding a bridle in his hand and so is he pictured. *Eratostenes* affirmeth him to be *Erichonius* King of *Athens*, the son of *Palaen*: who having most deformed feet, devised first the use of the Waggon or Chariot, and joyned horses together to draw the same, to the end that he sitting therein might the better conceal his deformities. For which invention, *Jupiter* translated him into the Heavens.

In this Constellation there are two other particular Constellations to be noted; whereof the one consisteth but of one Star alone, which is in the left shoulder of *Auriga*, and is called *Hiemps*, or *Capra* the Goat; the *Arabians* call it *Alnasoth*. The other consisteth of 2 little Stars a little beneath the others, standing

standing as it were in the hand of *Amiga*; this Constellation is called *Hed*, the *Kids*. The tale is thus; *Saturn* (as you heard before) had received of the Oracle, that one of his Sons should put him out of his Kingdom, whereupon he determined to devour them all: *Ops* by stealth conveyed away *Jupiter*, and sent him to *Melissus* King of *Crete*, to be nourished. *Melissus* having 2 daughters, *Amalthæa*, and *Melissa*, committed *Jupiter* unto their Nursery, *Amalthæa* had a Goat that gave suck unto 2 Kids, so that by the milk of this Goat, she nourished *Jupiter* very well: To requite this her care and courtesie, *Jupiter* (after he had put his Father out of his Kingdom) translated her Goat and her two Kids into Heaven, and in remembrance of the Nurse, the Goat is called *Capra Amalthæa*. *Novidius* saith, that when Christ was born and his birth made manifest by the Angels unto the Shepherds, one of them brought with him for a Present, a Goat and two young Kids, which in token of his good will, were placed in Heaven.

13. *OPHIUCUS*, or *SERPENTARIUS*, That is the *Serpent bearer*. This Constellation hath no proper name, but is thus entituled, because he holdeth a Serpent in his hands. It containeth 24 Stars. Some say that it is *Hercules*, and report the Tale on this manner. *Juno* being a great enemy to *Hercules*, sent two Snakes to kill him as he lay sleeping in his Cradle: but *Hercules* being a lusty Child (for *Jupiter* had spent two days in begetting him) without much ado strangled them both: In memorial of so strange an event, *Jupiter* placed him in the Heavens, with a Serpent in his hands.

14. *SERPENS*, the *Serpent of Ophiuchus*, which

con-

consisteth of 18 Stars. Some say that it is one of the Serpents that should have slain *Hercules* in his Cradle. *Novidius* saith, it is the *Viper* that bit *Paul* by the hand. Others deliver the Tale in these words; *Glancus* the son of *Minos* King of *Crete*, was by misfortune drowned in a Barrel of Honey: *Minas* his Father craved the help of *Esculapius* the Physician: and that he might be driven perforce to help the Child, he shut him up in a secret place, together with the dead Carcass: whiles *Esculapius* stood in a great maze with himself what were best to be done, upon a sudden there came a Serpent creeping towards him, the which Serpent he slew with the Staff which he had in his hand. After this there came another Serpent in, bringing in his mouth a certain herb, which he laid upon the head of the dead Serpent, whereby he restored him unto life again. *Esculapius* using the same herb, wrought the same effect upon *Glancus*. Whereupon (after that) *Esculapius* (whom some affirm to be *Ophiucus*) was placed in the Heaven and the Serpent with him.

15. *SAGITA*, or *Telum*, the Arrow or Dart. This was that Arrow wherewith *Hercules* slew the Eagle or Grype that fed upon the Liver of *Prometheus* being tyed with Chains to the top of Mount *Caucasus*, and in memorial of that deed, was translated into Heaven. Others will have it to be one of those Arrows which *Hercules* at his death gave unto *Phylottetes*, upon which the Destiny of *Troy* did depend. The whole Constellation containeth five Stars.

16. *AQUILA*, the Eagle, which is called *Vultur Volans*, the flying Grype. It hath in it 9 Stars. The Poetical reason of this Constellation, is this; *Jupiter* trans-

transforming himself into the form of an *Eagle* took *Ganimedes* the *Trojan Boy*, whom he greatly loved up into *Heaven*, and therefore in sign thereof: (because by that means he performed his purpose) he placed the figure of the *Eagle* in *Heaven*. There belong unto this *Constellation* 6 *Stars* (before time) unformed, but now brought into the *Constellation* of *Antinous*. But whereupon that name should come, I know not, except it were that some man devised it there to curry favour with the Emperour *Adrian*, who loved one *Antinous Bithynicus* so well, that he builded a *Temple* in his honour at *Mantinea*.

17. *DELPHINUS*, the *Dolphin*: It containeth 10 *Stars*; yet *Ovid* in his second *Book de Fastis*, saith that it hath but nine. Neither did the ancient *Astronomers* attribute unto it any more, according to the number of the *Muses*; because of all other *Fishes* the *Dolphin* is said to be delighted with *Musick*. The *Tale* goeth thus concerning this *Constellation*. When *Neptune* the *God* of the *Sea* greatly desired to match with *Amphitrite*, she being very modest and shame-faced, hid her self; whereupon he sent many messengers to seek her out, among whom, the *Dolphin* by his good hap, did first find her; and persuaded her also to match with *Neptune*. For which his good and trusty service, *Neptune* placed him in the *Heavens*.

Others say, that when *Bacchus* had transformed the *Matrimers* that would have betrayed him, into *Dolphins*, he placed one of them in *Heaven*, that it might be a lesson for others to take heed how they carried any one out of his way, contrary both to his desire, and their own promise. *Nevidius* referreth

this Constellation unto the Fish that saved *Jonah* from drowning.

18. *EQUICULUS*, is the little Horse, and it consisteth of 4 Stars. This Constellation is named almost of no Writer, saving *Ptolomeus*, and *Alphon-sus* who followed *Ptolomey*, and therefore no certain Tale or History is delivered thereof by what means he came into Heaven.

19. *EQUUS ALATUS*, the *Winged Horse*, or *Pegasus*, it containeth 20 Stars. This Horse was bred of the blood of *Medusa*, after that *Perseus* had cut off her head, and was afterwards taken and tamed by *Bellerophon*, whiles he drank of the River *Pisene* by *Corinth*, and was used by him in the conquest of *Chimera*; after which exploit *Bellerophon* being weary of the earthly affairs, endeavoured to fly up into Heaven. But being amazed in his flight, by looking down to the earth, he fell from his Horse, *Pegasus* notwithstanding continuing his course (as they feign) entered into Heaven, and there obtained a place among the other Constellations.

20. *ANDROMEDA*, She consisteth of 23 Stars; but one of them is common both unto her and *Pegasus*. This was the daughter of *Cepheus* and *Cassiopeia*, and the Wife of *Perseus*; the reason why *Mercuron* or *Jupiter* placed her in the Heavens, is before expressed. *Novidius* referreth this Constellation unto *Alexandra* the Virgin, whom *S. George* through the good help of his Horse delivered from the *Dragon*.

21. *TRIANGULUM*, the *Triangle*, called also *Deltaion*, because it is like the fourth Letter of the Greek Alphabet Δ , which they call *Delta*, it consisteth

fifteth of four stars. They say it was placed in Heaven by *Mercury*, that thereby the head of the *Rain* might be the better known. Others say, that it was placed there in honour of the *Geometricians*, among whom, the Triangle is of no small importance. Others affirm, that *Ceres* in times past requested *Jupiter* that there might be placed in Heaven some Figure representing the form of *Sicily* an *Island* greatly beloved of *Ceres* for the fruitfulness thereof: now this *Island* being triangular (at her request) was represented in the Heaven under that form.

Thus much concerning the Constellations of the Northern Hemisphere. Now follow the Poetical Stories of the Constellations of the Southern Hemisphere.

Secondly;

Of the Southern Constellations.

1. **CETUS**, the *Whale*, it is also called the *Lion*, or *Beast* of the *Sea*. This is that monstrous Fish that should have devoured *Andromeda*, but being overcome by *Perseus*, was afterwards translated into Heaven by *Jupiter*, as well for a token of *Perseus* his manhood, as for the bigness of the Fish it self. This Constellation consisteth of 22 Stars.

2. **ORION**, this hath 38 Stars. The Poetical reason of his translation into the Heavens, shall be shewn in the *Scorpion* amongst the *Zodiacal* Constellations. The Ancient *Romans* called this Constellation *Jugala*, because it is most pestiferous unto Cattel, and as it were the very cut-throat of them. There are

are bright Stars in his girdle, which we commonly call our *Ladies yard*, or *wand*. *Novidius*, applying this sword of *Orion* unto Scripture, will have it to be the Sword of *Saul*, afterwards called *Paul*, where-with he persecuted the Members of Christ: which after his Conversion was placed in Heaven. In his left shoulder there is a very bright Star, which in *Latine* is called *Bellatrix* the *Warriour*, in the *Fæminine* Gender. I cannot find the reason except it be this; that Women born under this Constellation shall have mighty tongues: the reason of the *Ox hide* which he hath in his hand, may be Gathered out of the next story.

3. *FLUVIUS*; the *River*; it comprehendeth 34 Stars: It is called by some *Eridanus*, or *Pagus*; they say that it was placed in Heaven in remembrance of *Phæton*, who having set the whole Earth on fire by reason of misguiding his Father *Phæbus* his Chariot, was slain by *Jupiter* with a thunder-bolt, and tumbling down from Heaven, fell into the River *Eridanus*, or *Padus*, which the *Italians* call *Po*. Others say that it is *Nilus*, and that that figure was placed in Heaven because of the excellency of that River, which by the Divines is called *Gihon*, and is one of the Rivers of *Paradise*. Others call it *Flumen Orionis* the flood of *Orion*; and say that it was placed there, to betoken the off-spring from whence *Orion* came: for the tale is thus reported of him.

Jupiter, *Neptune*, and *Mercury*, travelling upon the Earth in the likeness of Men, were requested by *Hyerns* to take a poor lodging at his house for a Night: they being overtaken with the evening, yeilded unto his request; *Hyerns* made them good cheer, killing

killing an Ox for their better entertainment : The Gods seeing the good heart of the old man , willed him to demand what he would in recompence of his so friendly cheer. *Hyerns* and his Wife being old, requested the Gods to gratify them with a Son. They to fulfil his desire , called for the hide of the Ox that was slain , and having received it , they put it into the Earth , and made water into it all three together , and covering it , willed *Hyerns* within ten months after to dig it out of the Earth again ; which he did and found therein a Man-child ; whom he called *Ourion*, ab *Urania*, of piss ; although afterwards by leaving out the second letter, he was named *Orion*. At such time therefore as he was placed in Heaven , this flood was joyned hard to his heels , and the Ox hide wherein the Gods did piss, was set in the left hand, in memorial of his Off-spring.

4. LEPUS, the *Hare*, which consisteth of 12 Stars. This Constellation was placed in Heaven between the legs of *Orion*, to signifie the great delight in hunting which he had in his life time : but others think it was a frivolous thing, to say that so notable a fellow as *Orion* would trouble himself with so small and timorous a Beast as the *Hare* ; and therefore they tell the tale thus.

In times past there was not a *Hare* left in the Isle *Leros*; a certain youth therefore of that Island, being very desirous of that kind of beast, brought with him from another Countrey thereabout, an *Hare* great with young; which when she had brought forth, they in time became so acceptable unto the other Countrey men, that every one almost desired to have and keep a *Hare*. By reason whereof, the number of them grew

grew to be so great, within a short space after, that the whole Island became full of *Hares*, so that their Masters were not able to find them meat: whereupon the *Hares* breaking forth into the fields, devoured their Corn. Wherefore the Inhabitants being bitten with hunger; joyned together with one consent, and (though with much adoe) destroyed the *Hares*. *Jupiter* therefore placed this Constellation in the Heavens; as well to express the exceeding fearfulness of the Beast, as also to teach men this lesson; that there is nothing so much to be desired in this life, but that at one time or another bringeth with it more grief than pleasure. Some say, that it was placed in Heaven at the request of *Ganymedes*, who was greatly delighted with hunting the *Hare*.

§. CANIS MAJOR, the Great Dog, it consisteth of 18 Stars. It is called *Sirius Canis*, because he causeth a mighty drought by reason of his heat. This is the Constellation that giveth name unto the *Canicula* or *Dog days*; whose beginning and end is not alike in all places, but hath a difference according to the Countrey and time: as in the Time of *Hippocrates* the Physitian, who lived before the time of Christ 400 years, the *Canicular* days began 13 or 14 of *July*. In the time of *Avicenna*, the Spaniard, who lived in the year of Lord 1100. the *Canicular* days began the 15, 16, or 17 of *July*. In our Countrey; they begin about *St. James-tide*, but we use to account from the 6 of *July*, to the 17 of *August*; which is the time when the Sun beginneth to come near unto and to depart from this Constellation.

Novidius will have it to be referred to *Tobias Dog* which may very well be, because he hath a tail; *Tobias*

his Dog had one; as a certain fellow once concluded, because it is written that *Tobias* his Dog fawned upon his Master, therefore it is to be noted (said he) that he had a tail. The Poets say, that this is the Dog whom *Jupiter* set to keep *Europa*, after he had stolen her away, and conveyed her into *Creet*, and for his good service was placed in Heaven. Others say, that it was one of *Orion* his Dogs. There belong unto this Constellation 11 Stars unformed.

6. CANIS MINOR, the *Lesser Dog*; this of the Greeks is called *Procyon*, of the Latines *Antecanis*; it containeth but two Stars. Some say, that this was also one of *Orion*'s Dogs. Others rather affirm it to be *Mera* the Dog of *Origone*, or rather of *Icarus* her Father, of whom mention is made in the Constellation of *Bootes* and *Virgo*. This Dog of meer love to his Master, being slain, as aforesaid, threw himself into the River *Anygnus*, but was afterward translated into Heaven, with *Origone*. Among the Poets there is great dissention which of the two should be the Dog of *Origone*, some saying one, and some the other, and therefore they do many times take the one for the other.

7. ARGO NAVIS, the *Ship Argo* which comprehendeth 41 Stars; this is the Ship wherein *Jason* did fetch the golden fleece from *Colchis*, which was afterward placed in Heaven as a memorial, not only because of the great Voyage, but also, because (as some will have it) it was the first Ship wherein any man sailed. Their reason why this Ship is not made whole is that thereby men might be put in mind not to despair, albeit that their Ship miscarry'd in some part now and then; some avouch it to be the *Ark* of
Noah

Noah. *Novidius* faith it is the Ship wherein the *Apostles* were, when *Christ* appeared unto them walking on the Sea. In one of the Oars of this Ship there is a great Star, called *Canopus*, or *Canobus*, which the *Arabians* called *Shuel*, as it were a bone-fire, because of the greatness thereof. It is not seen in *Italy*, nor in any Country on this side of *Italy*: Some say that *Canobus* the Master of *Menelaus*, his Ship was transformed into this Star.

8. *HYDRA*, the *Hydra*, that hath 25 Stars and two unformed.

9. *CRATER*, the *Cup*, or *Standing-piece*; that hath seven Stars, some say that this was the Cup where in *Tagathon*, that is the chief God, mingled the Stuff whereof he made the Souls of Men.

10. *CORVUS*, the *Crow*; this hath seven Stars. These 3 Constellations are to be joyned together, because they depend upon one History, which is this. Upon a time *Apollo* made a solemn feast to *Jupiter*, and wanting water to serve his turn, he delivered a Cup to the *Crow* (the bird wherein he chiefly delighted) and sent him to fetch water therein. The *Crow* flying towards the River, espied a Fig-tree, fell in hand with the Figs, and abode there till they were ripe: In the end when, he had fed his fill of them, and satisfied his longing, he bethought himself of his errand, and by reason of his long delay, fearing a Check, he caught up a snake in his bill, brought it to *Apollo*, and told him that the snake would not let him fill the Cup with water. *Apollo* seeing the impudence of the bird, gave him this gift, that as long as the Figs were not ripe upon the

Tree so long he should never drink : and for a memorial of the silly excuse that she made, he placed both the *Crow*, *Cup*, and *Snake*, in Heaven.

11. **CENTAURUS**, the *Centaur*, which comprehendeth 37 Stars. Some say, that this is *Typhon*, others call him *Chiron*, the Schoolmaster of those three excellent men, *Hercules*, *Achilles*, and *Esculapius*: unto *Hercules* he read *Astronomy*, he trained *Achilles* in *Musick*, and *Esculapius*, in *Physick* : and for his upright life he was turned into this Constellation, Yet *Virgil* calleth *Sagittarius* by the name of *Chiron*. In the hinder feet of this Constellation, those Stars are set which are called the *Crossiers*, appearing to the Mariners as they sail towards the South Sea, in the form of a Cross, whereupon they have their name. The four Stars which are in the Garnish of the *Centaur's* Spear, are accounted by *Proclus* as a peculiar Constellation, and are called by him *Thyrsiflorus* which was a Spear compassed about with vine leaves: but they are called by *Copernicus*, and *Clavius*, and other Astronomers, the Stars of his Target. It should seem that they were deceived by the old translation of *Ptolomy*, wherein *Scutum* is put for *Hasta* (i.e.) the Target, for the Spear, as it is well noted by our Country-man Mr. *R. Record*, in his Book entitled *The Castle of Knowledge*.

12. **LUPUS**, the *Wolfe*, or the beast which the *Centaur* holdeth in his hand, containeth 19 Stars; the Poetical reason is this, *Chiron* the *Centaur* being a just man, was greatly given to the worship of the Gods: for which thing, that it might be notified to all posterity, they placed him by this beast, which he seemeth to stick and thrust through with his Spear

Spear (as it were) ready to kill for Sacrifice.

13. ARA, the *Altar*, it is also called *Lar*, or *Thuribulum* (i. e.) a Chimney with the fire, or a Censor. It consisteth of seven Stars, and is affirmed of some Poets to be the *Altar* whereon the *Centaur* was wont to offer up his sacrifice, But others tell the tale thus. * When as the great Gyants called the *Tytans* laboured as much as might be to pull *Jupiter* out of Heaven, the Gods thought it good to lay their heads together, to advise what was best to be done: Their conclusion was, that they should all with one consent join hands together to keep out such fellows, and that this their league might be confirmed, and thoroughly ratified, they caused the *Cyclops* (which were workmen of *Vulcan*) to make them an Altar: about this Altar all the Gods assembled, and there sware, that with one consent they would withstand their enemies; afterwards, having gotten the Victory it pleased them to place this Altar in Heaven as a memorial of their League, and a token of that good which unity doth breed.

14. CORONA AUSTRINA, the *South Garland*, it hath 13 Stars. Some say that it is some trifling *Garland* which *Sagittarius* was wont to wear, but he cast it away from him in jest, and therefore it was placed between his legs; others call it the Wheel of *Ixon*, whereupon he was tormented for that great discourtesie he would have offered unto *Juno*, thinking indeed to have gotten up her Belly: but *Jupiter* seeing the impudency of the man, tumbled him out of Heaven (where by the license of the gods he was sometimes admitted as a guest) into Hell there to be continually tormented upon a Wheel:

The Figure of which Wheel was afterwards placed in Heaven, to teach men to take heed how they be too saucie to make such courteous proffers unto other mens wives. The Greeks call this Constellation by the name of *Uraniscus*, because of the Figure thereof: For it representeth the palate or roof of the mouth, which they call *Uraniscus*.

15. The last is PISCIS AUSTRI NUS, or *Notius*, the *South Fish*, which comprehendeth 11 Stars, besides that which is in the mouth thereof, belonging to the water, which runneth from *Aquarius*, and is called by the *Arabians Fomabem*. The reason why this Fish was placed in the Heaven, is uncertain: yet some affirm, that the daughter of *Venus* going into a water to wash her self, was suddenly transformed into a Fish the which Fish was afterwards translated into Heaven. The unformed Stars belonging unto this Constellation are six.

Thus much concerning the Constellation of the Northern and Southern Hemispheres; now follow the Poetical Stories of the Zodiacal Constellations.

Thirdly,

Of the Zodiacal Constellations.

1. **A**RIES, the *Ram*, it is called by the Greeks *Crios*, it containeth in it 13 Stars, which were brought into this Constellation by *Thyestes*, the son of *Pelops*, and brother of *Acreus*. This is the *Ram*, upon which *Phrixus*, and *Helle* his sister, the children of *Athamas* did sit, when they fled from their step-mother

ther *Iuo*, over the Sea of *Helleſpont*: which *Ram* was afterwards for his good ſervice, translated to Heaven by *Jupiter*. Others ſay, that it was that *Ram* which brought *Bacchus* unto the ſpring of water, when through drought he was likely to have periſhed in the deſert of *Lybia*. *Novidius* will have this to be the *Ram*, which *Abraham* offered up inſtead of his Son *Iſaac*. The Star that is firſt in the head of the *Ram*, is that from whence our later *Aſtronomers* do account the Longitude of all the reſt, and it is diſtant from the head of *Aries*, in the tenth Sphere, 27 degrees 53 minutes. The unformed Stars belonging unto this Conſtellation, are five.

2. *TAURUS*, the *Bull*, which conſiſteth of 23 Stars. This was translated into Heaven in memorial of the Rape committed by *Jupiter* on *Europa* the daughter of *Agenor*, King of *Sidon*; whom *Jupiter* in the likenes of a white Bull ſtole away, and transported into *Candia*. Others ſay, That it was *Io* the daughter of *Inachus*, whom *Jupiter* loved, and turned into the form of a Cow, to the intent that *Juno* coming at unawares, ſhould not perceive what a part he had played: *Jupiter* afterward in memorial of that crafty conveyance, placed that Figure in Heaven; The reaſon why the Poets name not certainly whether it be a Cow or a Bull, is becauſe it wanteth the hinder parts; yet of the moſt of them it is called a *Bull*. In the Neck of the *Bull* there are certain Stars ſtanding together in a cluſter, which are commonly called the *ſeven Stars*; although there can hardly be diſcerned any more than ſix, theſe are reported to be the ſeven daughters of *Atlas*, called *Atlantiades*, whereof 6 had company with the immortal Gods, but the 7th, (whoſe

(whose name was *Merope*) being married unto *Systphus* a mortal man, did therefore withdraw and hide her self, as being ashamed that she was not so fortunate in matching herself as her sisters were. Some say that that star which is wanting is *Electra*, eldest Daughter of *Atlas*, and that therefore it is so dim, because she could not abide to behold the destruction of *Troy*; but at that time and ever since, she hid her face. The reason why they were taken up into Heaven, was their great pity towards their Father, whose mishap they bewailed with continual tears. Others say, that whereas they had vowed perpetual Virginity, and were in danger to lose it, by reason of *Orion*, who greatly assailed them, being overtaken with their love, they requested *Jupiter* to stand their friend; who translated them into Stars, and placed them in that part of Heaven. The Poets call them *Pleiades*, because when they rise with the Sun, the Mariners may commit themselves to the Sea. Others will have them to be so termed *aplendo*, because they procure rain. Others give them this name, of the Greek word *Cleiones*, because they be many in number; they be also called *Virgilia*, because they rise with the Sun in the Spring time: likewise *Athorais*, because they stand so thick together. Our men call them by the name of the *seven Stars*, or *Brood Hen*. The Astronomers note this as a special thing concerning these stars, that when the Moon and these Stars do meet together, the eyes are not to be medled withal, or cured if they be sore: their reason is, because they be of the nature of *Mars* and the *Moon*.

Moreover, there be five stars in the face of the *Bull*, representing the form of the Roman letter *V*, whereof

one

one (which is the greatest) is called the *Bulls Eye*, They be called *Hyades*, and were also the daughters of *Atlas*, who so long bewailed the death of *Hyas* their Brother, slain by a *Lyon*, that they died for sorrow, and were afterwards placed in Heaven, for a memorial of that great love they bare to their Brother. The ancient *Romans* call the *Bulls Eye* *Parilicium*, or *Palelicium*; of *Pales* their goddess, whose feast they celebrated after the conjunction of this Star and the Sun. The unformed Stars belonging unto this Constellation, are eleven.

3. GEMINI, the *Twins* consisteth of 18 stars. The Poets say, they are *Castor* and *Pollux*, the sons of *Leda*, brethren most loving, whom therefore *Jupiter* translated into Heaven. Some say that one of them is *Apollo*, and the other *Hercules*: but the most affirm the former. The unformed Stars of this Constellation are seven, whereof one is called *Tropus*, because it is placed next before the foot of *Castor*.

4. CANCER, the *Crab*, it hath 9 Stars. This is that *Crab* which bit *Hercules* by the heel as he fought with the Serpent *Hydra* in the Fen *Lerna*, and for his forward service, was placed in Heaven by *Juno*, the utter enemy of *Hercules*. In this Constellation there are Stars much spoken of by the Poets, although they be but small, whereof one is called the *Crib*, other two are the two *Asses*, whereof one was the *Ass* of *Bacchus*, the other of *Vulcan*, whereon they rode to Battel, when as the Gyants made War with the Gods; with whose braying and strange noise, the Gyants were so scared upon the sudden, that they forsook the field, and fled. The Gods getting the Victory, in triumphing manner translated both the *Asses*,
and

and their manger into Heaven. The unformed Stars of this Constellation are four. It is called *animal Retrogradum*, for when the Sun cometh into this Sign, he maketh Retrogradation.

5. LEO, the *Lion*; it hath 27 Stars, this is that *Lion* which *Hercules* overcame in the wood *Nemaa*, and was placed in Heaven in remembrance of so notable a deed. *Novidius* saith, this was one of the *Lyons* that were in the den into which *Daniel* was cast, and was therefore placed in Heaven, because of all other he was most friendly unto *Daniel*. In the breast of this Constellation is that notable great Star, the light whereof is such, as that therefore it is called by Astronomers *Bazileus* or *Regulus* (i. e.) the *Viceroy* or little King among the rest. The unformed Stars belonging to the *Lion* are eight, whereof three make the Constellation which is now called *Coma Berenices* that is, the hair of *Berenice*. This Constellation was first found out and invented by *Canon* the Mathematician, but described by *Calimachus* the Poet. The occasion of the story was this. *Ptolomeus Energetes* having married his sister *Berenice*, was shortly after enforced to depart from her, by reason of the Wars he had begun in *Asia*: whereupon *Berenice* made this Vow, that if he returned home again in safety, she would offer up her hair in *Venus* Temple. *Ptolomy* returned safe; and *Berenice*, according to her Vow, cut off her hair and hung it up. After certain days, the hair was not to be found; whereupon *Ptolomy* the King was greatly displeased; but *Canon*, to please the humor of the King, and to curry favour with him, perswaded him that *Venus* had conveyed the Hair into Heaven. *Canon* attributeth seven Stars unto it,

it, but *Ptolomy* allotteth it but three, because the other be insensible.

6. VIRGO, the *Virgin*, it hath 26 Stars. This is affirmed to be Justice, which among all the Gods sometime living upon the Earth, did last of all forsake the same, because of the wickedness that began to multiply therein, and chose this place for her seat in Heaven.

Others say, that it was *Astrea*, the daughter of *Astreus*, one of the Gyants that were called *Titans*, who fighting against the Gods, *Astrea* took their parts against her own Father, and was therefore after her death commended unto the Heavens, and made one of the 12 Signs.

Others say, that it was *Origone*, the daughter of *Icarus*, who for that her Father was slain by certain drunken men, for very grief thereof hanged her self: but *Jupiter* taking pity of the *Virgin* for her natural affection, translated her into Heaven.

In her right wing there is one Star of special note, which by the Astronomers is called *Vindemiator*, (i.e.) the gatherer of Grapes. This was *Ampulos* the son of a Satyr and a Nymph, and greatly beloved of *Bacchus* unto whom in token of his love, *Bacchus* gave a singular fair Vine, planted at the foot of an Elm (as the manner was in old time.) But *Ampelos* in Harvest gathering Grapes, and taking little heed to his footing, fell down out of the Vine, and brake his neck. *Bacchus* in memorial of his former affection, translated him into Heaven, and made him one of the principal Stars in this Constellation. There is another great Star in the hand of the *Virgin*, called of the Latines *Spica*, of the Greeks *Stachus*, of the Arabians

bians *Azimech* (i.e.) the *Ear of Corn*: whereby they signifie, that when the Sun cometh to this Sign, the Corn waxeth ripe. *Albunaxar* the *Arabian*, and *Novidius*, take this Constellation for the *Virgin Mary*. The unformed Stars in this Constellation are six.

7. *LIBRA* the *Ballance*, it containeth eight Stars, *Cicero* calleth *Jugum* the *Yoke*, and here it is to be noted, that the ancient Astronomers that first set down the number of the Constellations contained in the Zodiack, did account but eleven therein, so that the Sign, which now is called *Libra*, was heretofore called *Chelai*, that is to say, the *Claws of the Scorpion*, which possesseth the space of two whole Signs. But the latter Astronomers, being desirous to have 12 Signs in the Zodiack, called these eight, whereof the *Claws of the Scorpion* do consist, by the name of *Libra*, not that there was any Poetical Fiction to induce them thereto, but only moved by this reason, because the Sun joyning with this Constellation, the Day and the Night are of an equal length, and are (as it were) equally poized in a pair of Ballances. Yet (as I remember) some will have this to be the Ballance, wherein Justice, called also *Astræa*, weighed the deeds of mortal men, and therein presented them unto *Jupiter*. It hath 9 unformed Stars appertaining unto it.

8. *SCORPIO*, the *Scorpion*, called of the *Arabians*, *Alatrab*; of *Cicero*, *Nepa*. It consisteth of 21 Stars. The Fiction is thus; *Orion* the son of *Hyrens* greatly beloved of *Dianna*, was wont to make his boast: that he was able to overcome what Beast soever was bred upon the Earth: the Earth being moved with this speech brought forth the *Scorpion*, whereby
Orion

Orion was stung to death. *Jupiter* thereupon (at the request of the Earth) translated both the *Scorpion* and *Orion* into Heaven; to make it a lesson for ever, for mortal men not to trust too much unto their own strength; and to the end he might signify the great enmity between them, he placed them so in Heaven; that whensoever the one ariseth, the other setteth; and they are never both of them seen together above the Horizon at once: *Gulielmus Pastellus* will have it to be the *Serpent* which beguiled *Eve* in *Paradise*. The unformed Stars about this *Scorpion* are three.

9. *SAGITTARIUS*, the *Archer*. It hath 31 Stars. Touching this Sign, there are among the Poets many and sundry opinions. Some say that it is *Crochus*, the son of *Paphene*, that was Nurse unto the *Muses*. This *Crochus* was so forward in learning of the Liberal Sciences, and in the practice of feats of Activity, that the *Muses* entreated *Jupiter* that he might have a place in Heaven. To whose request *Jupiter* inclining, made him one of the 12 Signs: And to the end that he might express the excellent qualities of the Man, he made his hinder parts like unto a Horse, thereby to signify his singular knowledge in Horsemanship: and by his Bow and Arrow, he declared the sharpness of his Wit. Wherenpon the Astrologers have this conceit, that he that is born under *Sagittarius*, shall attain to the knowledge of many Arts, and be of prompt wit, and great courage. *Virgil* affirmeth this to be *Chiron* the *Centaur*, who for his singular Learning and Justice was made the Master of *Achilles*. At which time *Hercules* coming to visit him (for he had heard both of the worthiness of the School-master, and of the great hopes of the Scholar) brought

brought with him his quiver of Arrows dipped in the blood of the Serpent *Hydra*; but *Chiron* being desirous to see his shafts, and not taking heed of them being in his hand, let one of them fall upon his foot; and being greatly tormented, not only by the anguish of the Poyson working in the Wound, but much more because he knew himself to be immortal, and his wound not to be recovered by Medicine, he was enforced to make request unto the Gods, that he might be taken out of the World; who pitying his case, took him up into Heaven, and made him one of the 12 Signs.

10. *CAPRICORNUS*, the *Goat*; it consisteth of 28 Stars. The Poets say, that this was *Pan* the God of the Shepherds, of whom they feign in this manner: The Gods having War with the Gyants, gathered themselves together into *Egypt*, *Typhon* the Gyant pursued them thither, whereby the Gods were brought into a quandary, that well was he that by changing his shape might shife for himself. *Jupiter* turned himself into a *Ram*: *Apollo* became a *Crow*: *Bacchus* a *Goat*: *Diana* lurked under the form of a *Cat*: *Juno* transformed her self into a *Cow*: *Venus* into a *Fish*: *Pan* leaping into the River *Nilus*, turneth the upper part of his body into a *Goat*, and the lower part into a *Fish*. *Jupiter* wondring at the strange device, would needs have that Image and Picture translated into Heaven, and made one of the 12 Signs. In that the hinder part of this Sign is like a *Fish*. It betokeneth that the latter part of the month wherein the Sun possesseth this Sign, inclineth unto Rain.

11. *AQUARIUS*, the *Waterman*; it hath 42 Stars, whereof

whereof some make the Figure of the Man: other-
 some the Water-pot; and some, the stream of wa-
 ter that runneth out of the pot. This is feigned to
 be *Ganymedes* the *Trojan*, the son of *Oros* and *Callirhoe*,
 whom *Jupiter* did greatly love for his excellent fa-
 vour and beauty, and by the service of his Eagle car-
 ried him up into Heaven, where he made him his
 Cup-bearer, and called him *Aquarius*. Others not-
 withstanding think it to be *Deucalion* the son of *Pro-
 metheus* whom the Gods translated into Heaven, in
 remembrance of that mighty deluge which hapned
 in his time; whereby mankind was almost utterly ta-
 ken away from the face of the earth. The unformed
 stars belonging unto this Sign are three.

12. *PISCES*, the *Fishes*: these together with the
 line that knitteth them together, contain 24 Stars.
 The Poets say, that *Venus* and *Cupid* her son coming
 upon a certain time unto the River *Euphrates*, and
 sitting upon the bank thereof, upon a sudden espied
Typhon the *Gyant*, that mighty and fearful enemy of
 the gods coming towards them; upon whose sight,
 they being stricken with exceeding fear, leapt into the
 River, where they were received by two *Fishes*, and
 by them saved from drowning. *Venus* for this good
 turn, translated them into Heaven. *Gulielmus Postel-
 lus* would have them to be the two *Fishes* wherewith
 Christ fed the 5000 Men. The unformed Stars of
 this Constellation are four.

Thus have I briefly run over the Poetical reasons of
 the Constellations: It remains now that I speak of the
 Milky Way.

VIA LACTEA, or *Circulus Lacteus*, by the
 Latines so called; and by the Greeks *Galaxis*; and
 by

by the English the *Milkey Way*. It is a broad white Circle that is seen in the Heaven: In the North Hemisphere, it beginneth at *Cancer*, on each side the head thereof, and passeth by *Auriga*, *Perseus*, *Cassiopeia*, the *Swan*, and the head of *Capricorn*, the tail of *Scorpio*, the feet of *Centaur*, *Argo* the Ship, and so to the head of *Cancer*. Some in a sporting manner do call it *Watling-street*, but why they call it so, I cannot tell, except it be in regard of the narrowness that it seemeth to have; or else in respect of that great high way that lyeth between *Dover* and *St. Albons*, which is called by our men *Watling-street*.

Ovid saith, it is the great Causey, and High-way that leadeth unto the Pallace of *Jupiter*, but he alledgeth not the cause of the whiteness; belike he would have us imagine that it is made of White Marble.

Others therefore alledg these causes: *Jupiter* having begotten *Mercury* of *Maia* the daughter of *Atlas*, brought the child when he was born, to the breast of *Juno* lying asleep: But *Juno* awaking threw the child out of her lap, and let the milk run out of her breast in such abundance, that (spreading it self about the Heaven) it made that Circle which we see. Others say, that it was not *Mercury*, but *Hercules*; and that *Juno* did not let the milk run out of her breast, but that *Hercules* suckt them so earnestly, that his mouth run over, and so this Circle was made.

Others say, that *Saturn* being desirous to devour his children, his wife *Ops* presented him with a stone wrapped in a clout, instead of his Child: This stone stuck so fast in *Saturn's* Throat as he would have swallowed it, that without doubt he had therewith been choaked, had he not been relieved by his wife:
who

who by pressing the milk out of her breasts saved his life: the milk that missed his mouth (whereof you must suppose some sufficient quantity) fell on the Heavens, and running along made this Circle.

Dr. Hood Commenting upon Constellations saith; the Stars are brought into Constellations, for Instruction sake; things cannot be taught without names; to give a name to every Star had been troublesome to the Master; and for the Scholar; for the Master to devise, and for the Scholar to remember; and therefore the Astronomers have reduced many Stars into one Constellation; that thereby they may tell the better where to seek them; and being sought, how to express them. Now the Astronomers did bring them into these Figures, and not into other, being moved thereto by these three reasons: first, these Figures express some properties of the Stars that are in them; as those in the *Ram* to be hot and dry; *Andromeda* chained betokeneth imprisonment, the head of *Medusa* cut off signifieth the loss of that part: *Orion* with his terrible and threatening gesture, importeth tempest and terrible effects. The *Serpent*, the *Scorpion*, and the *Dragon*, signifie Poyson: The *Bull* insinuateth a melancholy passion: The *Bear* inferreth cruelty, &c. Secondly, the Stars (if not precisely, yet after a sort) do represent such a Figure, and therefore that Figure was assigned them, as for example, the *Crown*, both North and South, the *Scorpion* and *Triangle*, represent the figures which they have. The third cause was the continuance of the memory of some notable Men, who either in regard of their singular pains taken in Astronomy, or in regard of some other notable deed, had well deserved of Mankind.

The first Author of every particular Constellation is uncertain; yet are they of great antiquity; we receive them from *Ptolomy*, and he followed the *Platonicks*; so that their antiquity is great. Moreover, we may perceive them to be ancient by the Scriptures, and by the Poets. In the 38 Chapter of *Job* there is mention made of the *Pleiades*, *Orien*, and *Arcturus*, & *Mazzaroth*, which some interpret the 12 Signs; *Job* lived in the time of *Abraham*, as *Sydenhames* maketh mention in his Book *de Communis servandis locorum distantia*.

Now besides all this, touching the reason of invention of these Constellations, the Poets in setting forth those Stories, had this purpose, to make men fall in love with Astronomy: When *Demosthenes* could not get the people of *Athena* to hear him in a matter of great moment, and profitable to the Common-wealth, he began to tell them a Tale of a fellow that sold an Ass, by which Tale he so wrought on the *Athenians*, that they were both willing to hear his whole Oration, and to put in practise that whereunto he exhorted them. The like intent had the Poets in these Stories: They saw that Astronomy being for commodity singular in the life of Man, was almost of all men utterly neglected: Hereupon they began to set forth that Art under these Fictions; that thereby such as could not be perswaded by commodity, might by the Pleasure be induced to take a view of these matters, and thereby at length fall in love with them. For commonly note this, that he that is ready to read the Stories, cannot content himself therewith, but desireth also to know the Constellations, or at least wise some principal Star therein.

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